

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et. seq: the "Act").

Shell Oil Company
P.O. Box 831
Houston, Texas 77001

is authorized to discharge:

cooling water (discharges 001A and 001B on Platform Ellen)
drill cuttings and drilling muds (discharges 002A and 002B on
Platform Ellen)
work area deck drainage (discharge 003 on Platform Ellen)
oil-free drainage (discharge 004A on Platform Ellen and
004B on Platform Elly)
sanitary and domestic wastes (discharge 005 on Platform Ellen)
seawater and seawater filter backwash water (discharge 006 on
Platform Elly) and
produced water and work area deck drainage (discharge 007 on
Platform Elly)

from the Beta Unit Complex located on lease parcel OCS P-0300 at the following
coordinates: latitude 34°10'47" N and longitude 119°28'05" W to receiving
waters named San Pedro Channel in accordance with effluent limitations, moni-
toring requirements and other conditions set forth in Parts I, II, and III
thereof.

This permit shall become effective on August 24, 1979.

This permit and the authorization to discharge shall expire at midnight, December
31, 1983.

Signed this 25 day of July, 1979.

For the Regional Administrator



Director, Enforcement Division

A. 1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 001A and 001B (cooling water).

Such discharges shall be limited and monitored by the permittee as specified below:

a. EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS*	
	kg/day (lbs/day)	Other Units (Specify)		Measurement Frequency	Sample Type
	Daily Avg	Daily Max	Daily Avg	Daily Max	
Flow-m ³ /Day (MGD)	-----	-----	-----	-----	Once/Month Discrete
Temperature	-----	-----	-----	20° above receiving water	Once/Month Discrete

- The use of chemical additives is prohibited.
- There shall be no visible floating solids in the receiving waters as a result of these discharges.
- Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: discharges 001A and 001B, prior to mixture with the waters of the San Pedro Channel and at a point in the receiving waters where there is no thermal influence from the discharge (receiving waters need only be monitored with respect to temperature).

* The monitoring requirements shall commence on the effective date of this permit.

A. 2. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 002A and 002B (drill cuttings and drilling muds).

Such discharges shall be limited and monitored by the permittee as specified below:

a. EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS*		
	kg/day(lbs/day)	Other Units(Specify)		Sample Type	Measurement Frequency	Once/Month	Estimate
	Daily Avg	Daily Max	Daily Avg	Daily Max			
Total Volume (cubic meters)**	---	---	---	---			

- There shall be no discharge of free oil as a result of the discharge of drill cuttings and/or drilling muds.
- There shall be no visible floating solids in the receiving waters as a result of these discharges.
- The discharge of oil-base drilling muds is prohibited.
- There shall be no discharge of toxic materials (see Part I.A.8.).

* The monitoring requirements shall commence on the effective date of this permit.

** The total volume of drilling cuttings and spent drilling muds discharged at each site shall each be monitored by an estimate sample type.

A. 3. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 003 (work area deck drainage).

Such discharges shall be limited and monitored by the permittee as specified below:

a.	EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS *		
		kg/day(lbs/day)	Other Units(Specify)	Measurement Frequency	Sample Type	Measurement Frequency	Sample Type	Composite
		Daily Avg	Daily Max	Daily Avg	Daily Max	Once/Month		
	Flow-m ³ /Day (MGD)	---	---	---	---			

- There shall be no free oil or floating solids in the receiving waters as a result of this discharge.
- Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: discharge 003, subsequent to all treatment processes and prior to entry into the waters of the San Pedro Channel.

* The monitoring requirements shall commence on the effective date of this permit.

A. 4. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 004 (oil-free drainage).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS *		
	kg/day(lbs/day)	Other Units(Specify)		Measurement Frequency	Sample Type	
	Daily Avg	Daily Max	Daily Avg	Once/Month	Composite	
Flow-m ³ /Day (MGD)	---	---	---			

b. There shall be no free oil or floating solids in the receiving waters as a result of this discharge.

c. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: discharge 004, subsequent to all treatment processes and prior to entry into the waters of the San Pedro Channel.

* The monitoring requirements shall commence on the effective date of this permit.

A. 5. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 005 (sanitary and domestic wastes).

Such discharges shall be limited and monitored by the permittee as specified below:

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS*	
	kg/day(lbs/day)	Other Units(Specify)	Measurement Frequency	Sample Type	
a.	Daily Avg	Daily Max	Daily Avg	Once/Month	Discrete
Flow-m ³ /Day (MGD)	---	---	---	Once/Month	Discrete
Residual Chlorine	---	---	1.0 mg/l**	Once/Month	Discrete

b. There shall be no visible oil or floating solids in the receiving waters as a result of this discharge.

c. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: discharge 005, subsequent to all treatment processes and prior to entry into the waters of the San Pedro Channel.

* The monitoring requirements shall commence on the effective date of this permit.

** After a minimum retention time of fifteen minutes, the effluent shall have a minimum chlorine residual of 1.0 mg/l and be maintained as close to this concentration as possible.

A. 6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 006 (seawater and seawater filter backwash water).

Such discharges shall be limited and monitored by the permittee as specified below:

a.	EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS*		
		kg/day(lbs/day)		Other Units(Specify)		Measurement**		Sample Type
		Daily Avg	Daily Max	Daily Avg	Daily Max	Frequency	Quarterly	
	Total Volume (gallons) **	---	---	---	---			Estimate

- There shall be no visible oil or floating solids in the receiving waters as a result of these discharges.
- Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Discharge 006, subsequent to all treatment processes and prior to entry into the waters of the San Pedro Channel.
- The discharge of chemical additives in toxic quantities is prohibited.

* The monitoring requirements shall commence on the effective date of this permit.

** Total volume discharged from discharge 006 during that particular quarter of the year.

2. 7. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting through December 31, 1983, the permittee is authorized to discharge from outfall(s) serial number(s) 007 (produced water and work area deck drainage).

Such discharges shall be limited and monitored by the permittee as specified below:

a. EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS*	
	kg/day(lbs/day)	Other Units(Specify)	Measurement Frequency	Sample Type
Flow-m ³ /Day (MGD)	---	---	Once/Month	Composit-
Arsenic	---	1.9 (2.4)	Twice/Year	"
Cadmium	---	.72(1.6)	"	"
Total Chromium	---	.48(1.1)	"	"
Copper	---	.48(1.1)	"	"
Cyanides	---	.12(.26)	"	"
Lead	---	.96(2.1)	"	"
Mercury	---	.034(.075)	"	"
Nickel	---	2.4(5.3)	"	"
Silver	---	.039(.086)	"	"
Zinc	---	2.2(4.8)	"	"
Oil and Grease	---	68.0(149)	Once/Month	"
Phenols	---	7.2	Twice/Year	"

b. Samples taken in compliance with the monitoring requirements specified in Condition A.7.a., above, shall be taken at the following locations: at a point in discharge 007 prior to entry into the waters of the San Pedro Channel.

c. There shall be no visible floating solids or foam in the receiving waters as a result of discharge 007.

* The monitoring requirements shall commence the effective date of this pennit.

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B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Not Applicable

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.
3. A "schedule of compliance" means a program composed of two integral parts: (a) plan - description of new or modified facilities to treat and dispose of the effluent; and (b) schedule - a timetable setting forth the date by which all wastewaters will be in compliance with the effluent limitations of this permit. The schedule shall include (if appropriate) dates by which the permittee will accomplish:
 - a. Completion of a preliminary engineering plan report;
 - b. Completion of construction plans and specifications;
 - c. Initiation of construction;
 - d. Completion of construction;
 - e. Demonstration of compliance with effluent limitations.

C. MONITORING AND REPORTING

1. *Representative Sampling*

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. *Reporting*

Monitoring results obtained during the previous 3 months shall be summarized for each month and submitted on forms to be supplied by the Regional Administrator, to the extent that the information reported may be entered on the forms. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Unless otherwise specified, discharge flows shall be reported in terms of the average flow over each 30-day period and the maximum daily flow over that 30-day period. Monitoring reports shall be postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on December 28, 1979. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and the State at the following addresses:

Regional Administrator
Environmental Protection Agency
Region IX, ATTN: E-5/MR
215 Fremont Street
San Francisco CA 94105

Santa Ana Regional Water Quality
Control Board
Attn: Executive Officer
6833 Indiana Avenue, Suite 1
Riverside, California 92506

3. *Definitions*

See Part III.

4. *Test Procedures*

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(g) of the Act, under which such procedures may be required.

5. *Recording of Results*

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;

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- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. *Additional Monitoring by Permittee*

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

7. *Records Retention*

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the State water pollution control agency.

A. MANAGEMENT REQUIREMENTS

1. *Change in Discharge*

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Notification Requirements: (a) Promptly, but in no event later than seven days after permittee learns that an upset or bypass has occurred, a written notice containing the following information shall be submitted to the permitting authority:

- (1) A complete description of the episode;
- (2) The actual or estimated duration of noncompliance with applicable effluent limitations, including, if available, exact times and dates;
- (3) A statement supporting the contention by the permittee that such noncompliance resulted from an upset or bypass;
- (4) A remedial plan which details the specific actions which have or will be taken to re achieve compliance with applicable permit effluent limitations in the shortest possible period of time, and to prevent recurrence of the violation.

(b) In the event of scheduled preventive maintenance necessitating a bypass, notification shall be submitted to the permitting authority at least thirty days prior thereto and shall include:

- (1) An explanation of the necessity for a bypass;
- (2) An explanation of why no alternatives to a bypass exist;
- (3) The estimated amount by which effluent limitations will be exceeded during the bypass.

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3. *Facilities Operation*

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. *Adverse Impact*

The permittee shall take all reasonable steps to minimize any adverse impact to receiving waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. *Bypassing*

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall promptly notify the Regional Administrator and the State in writing of each such diversion or bypass, in accordance with the procedure specified in Part II.A.2. above.

6. *Removed Substances*

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

7. *Safeguards to Electric Power Failure*

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either (a) maintain in good working order an alternative power source sufficient to operate the wastewater control facilities; or, if such alternative power source is not in existence, shall; (b) halt, reduce or otherwise control all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

8. *Modification With Respect to Upset/Bypass*

Upon application by the permittee, the permit may be modified in the future with respect to upset/bypass conditions pending resolution of litigation currently in progress in the Fifth Circuit Court of Appeals.

B. *RESPONSIBILITIES*

1. *Right of Entry*

The permittee shall allow the head of the State water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. *Transfer of Ownership or Control*

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit: by letter, a copy of which shall be forwarded to the Regional Administrator and the State water pollution control agency.

3. *Availability of Reports*

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public

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inspection at the offices of the State water pollution control agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. *Permit Modification*

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. *Toxic Pollutants*

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. *Civil and Criminal Liability*

Except as provided in permit conditions on "Bypassing" (Part II, A-5) and "Power Failures" (Part II, A-7), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. *Oil and Hazardous Substance Liability*

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. *State Laws*

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. *Property Rights*

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. *Severability*

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

OTHER REQUIREMENTS

Part I.A.8. Additional Monitoring Requirements: Bioassay of Spent Drilling Muds

The permittee shall demonstrate compliance with condition I.A.2.e. by conducting and reporting the results of a drilling mud bioassay performed for each type of drilling mud used, prior to initiation of its discharge. The bioassay shall be conducted in accordance with the procedures developed by the Mid-Atlantic Joint Industry Bioassay Program, or any other method approved by the Regional Administrator, Region IX.

The bioassay requirement shall be deemed satisfied if the permittee uses a mud for which bioassay test data has previously been submitted to the agency without regard to whether the permittee originally submitted the test data. Copies of this data shall be provided to the Regional Administrator prior to initiation of discharge. The permittee may discharge a mud of the same generic type as one for which bioassay data already exists provided certification, in writing, is given prior to discharge, that the new mud is less toxic (i.e. lower concentration of toxic components) than the mud previously tested.

Part I.C.3. Definitions

- a. The "daily maximum concentration" means the measurement made on any single discrete or composite sample.
- b. A "discrete sample" means any individual sample collected in less than fifteen minutes.
- c. For flow rate measurements, a "composite sample" means the arithmetic mean of no fewer than eight individual measurements taken at equal intervals for twenty-four hours or for the duration of the discharge, whichever is shorter.

For oil and grease measurements, a "composite sample" means four samples taken over a twenty-four hour period, analyzed separately and the four samples averaged. The daily maximum limitation for oil and grease is based on this definition of a composite sample.

For measurements other than flow rate or oil and grease, a "composite sample" means a combination of no fewer than eight individual samples obtained at equal time intervals for twenty-four hours or for the duration of the discharge, whichever is shorter.

- d. The "daily maximum discharge" means the total discharge by weight during any calendar day.
- e. Upset: An upset is an exceptional incident during which applicable technology based effluent limitations are temporarily exceeded for reasons beyond the reasonable control of the permittee. An upset shall not include excessive pollutant concentrations to the extent caused by improperly designed or inadequate treatment facilities, by poor maintenance, or by careless or improper operation.
- f. Bypass: Any diversion from any or all portions of waste treatment facilities when necessary to prevent loss of life, injury or severe property damage and when no feasible alternatives, such as the use of auxiliary waste treatment facilities, retention of untreated wastes or maintenance during normal periods of equipment down-time, exist to the employment of a bypass.

While severe property damage includes substantial physical damage to property or a substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass; it does not include economic loss caused by delays in production attributable to corrective or preventive maintenance of waste treat-

ment facilities.

- g. Toxic Material: Any substance on the list of 65 toxic pollutants identified by name in Table 1 of Committee Print 95-30, Data Relating to HR 3199 (Clean Water Act of 1977), Nov. 1977 (list below).

Toxic Pollutants

Acenaphthene
Acrolein
Acrylonitrile
Aldrin/Dieldrin
Antimony and compounds
Arsenic and compounds
Asbestos
Benzene
Benzidine
Beryllium and compounds
Carbon tetrachloride
Chlordane (technical mixture and metabolites)
Chlorinated benzenes (other than dichlorobenzenes)
Chlorinated ethanes (including 1,2-dichloroethane, 1,1,1-trichloroethane, and hexachloroethane)
Chloroalkyl ethers (chloromethyl, chloroethyl, and mixed ethers)
Chlorinated naphthalene
Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols)
Chloroform
2-chlorophenol
Chromium and compounds
Copper and compounds
Cyanides
DDT and metabolites
Dichlorobenzenes (1,2-, 1,3-, and 1,4-dichlorobenzenes)
Dichlorobenzidine
Dichloroethylenes (1,1- and 1,2-dichloroethylene)
2,4-dichlorophenol
Dichloropropane and dichloropropene
2,4-dimethylphenol
Dinitrotoluene
Diphenylhydrazine
Endosulfan and metabolites
Endrin and metabolites
Ethylbenzene
Fluoranthene

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Haloethers (other than those listed elsewhere; includes chlorophenyl-phenyl ethers, bromophenylphenyl ether, bis-(dischloroisopropyl ether, bis-(chloroethoxy) methane and polychlorinated diphenyl ethers)
Halomethanes (other than those listed elsewhere; includes methylene chloride, methylchloride, methylbromide, bromoform, dichlorobromomethane, trichlorofluoromethane, dichlorodifluoromethane)
Heptachlor and metabolites
Hexachlorobutadiene
Hexachlorocyclohexane (all isomers)
Isophorone
Lead and compounds
Mercury and compounds
Naphthalene
Nickel and compounds
Nitrobenzene
Nitrophenols (including 2,4-dinitrophenol, dinitrocresol)
Nitrosamines
Pentachlorophenol
Phenol
Phthalate esters
Polychlorinated biphenyls (PCB's)
Polynuclear aromatic hydrocarbons (including benzanthraces, benzopyrenes, benzofluoranthene, chrysenses, dibenzanthracenes, and indenopyrenes)
Selenium and compounds
Silver and compounds
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
Tetrachloroethylene
Thallium and compounds
Toluene
Toxaphene
Trichloroethylene
Vinyl chloride
Zinc and compounds

Part III.A. Reapplication

If the permittee desires to continue to discharge, he shall reapply not later than 180 days before this permit expires, on the application forms then in use.